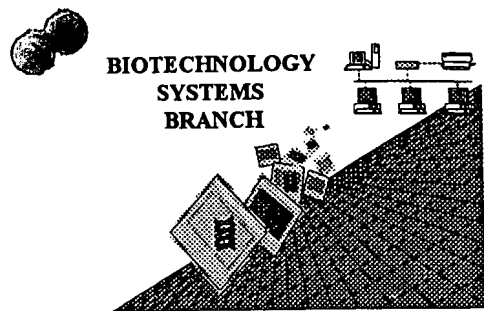# RAW SEQUENCE LISTING
# ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: _09/265,540_

Art Unit / Team No. : _1600_

Date Processed by STIC: _3/24/99_

THE ATTACHED PRINTOUT EXPLAINS THE **ERRORS DETECTED.**

**PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:**

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

# Raw Sequence Listing Error Summary

| ERROR DETECTED | SUGGESTED CORRECTION | SERIAL NUMBER: 09/265,540 |
|---|---|---|

**1** _____ Wrapped Nucleics

The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

**2** _____ Wrapped Aminos

The amino acid number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

**3** _____ Incorrect Line Length

The rules require that a line not exceed 72 characters in length. This includes spaces.
All text must be visible on page.

**4** _____ Misaligned Amino Acid Numbering

The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
between the numbering. It is recommended to delete any tabs and uses spacing between the numbers.

**5** _____ Non-ASCII

This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

**6** _____ Variable Length

Sequence(s) _____ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) features section that some may be missing.

**7** _____ Wrong Designation

Sequence(s) _____ contain amino acid or nucleic acid designators which are not standard
representations as per the Sequence Rules (Please refer to paragraph 1.822)

**8** _____ Skipped Sequences (OLD RULES)

Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).

**9** _____ Skipped Sequences (NEW RULES)

Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

**10** _____ Use of n's or Xaa's (NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

**11** _____ Use of <213>Organism (NEW RULES)

Sequence(s) _____ are missing this mandatory field or its response.

**12** _____ Use of <220>Feature (NEW RULES)

Sequence(s) _____ are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)
(Sec. 1.823 of new Sequence Rules)

**13** _____ PatentIn ver. 2.0 "bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

PAGE:    1

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/265,540

DATE: 03/24/199?
TIME: 16:28:51

Input Set: I265540.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

Does Not Comply
Corrected Diskette Needed

```
 1   <110> APPLICANT: Parham, Christi L.
 2         Moore, Kevin W.
 3         Murgolo, Nicholas J.
 4         Bazan, J. Fernando
 5   <120> TITLE OF INVENTION: Human Receptor Proteins; Related Reagents and Methods
 6   <130> FILE REFERENCE: DX0804
 7   <140> CURRENT APPLICATION NUMBER: US/09/265,540
 8   <141> CURRENT FILING DATE: 1999-03-08
 9   <160> NUMBER OF SEQ ID NOS: 6
10   <170> SOFTWARE: PatentIn Ver. 2.0
11   <210> SEQ ID NO 1
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13   <212> TYPE: DNA
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21         gagtctacca a atg cag act ttc aca atg gtt cta gaa gaa atc tgg aca     170
22                     Met Gln Thr Phe Thr Met Val Leu Glu Glu Ile Trp Thr
23                      1           5                  10
24         agt ctt ttc atg tgg ttt ttc tac gca ttg att cca tgt ttg ctc aca    218
25         Ser Leu Phe Met Trp Phe Phe Tyr Ala Leu Ile Pro Cys Leu Leu Thr
26              15              20                  25
27         gat gaa gtg gcc att ctg cct gcc cct cag aac ctc tct gta ctc tca    266
28         Asp Glu Val Ala Ile Leu Pro Ala Pro Gln Asn Leu Ser Val Leu Ser
29              30              35                  40                  45
30         acc aac atg aag cat ctc ttg atg tgg agc cca gtg atc gcg cct gga    314
31         Thr Asn Met Lys His Leu Leu Met Trp Ser Pro Val Ile Ala Pro Gly
32                      50                  55                  60
33         gaa aca gtg tac tat tct gtc gaa tac cag ggg gag tac gag agc ctg    362
34         Glu Thr Val Tyr Tyr Ser Val Glu Tyr Gln Gly Glu Tyr Glu Ser Leu
35                      65                  70                  75
36         tac acg agc cac atc tgg atc ccc agc agc tgg tgc tca ctc act gaa    410
37         Tyr Thr Ser His Ile Trp Ile Pro Ser Ser Trp Cys Ser Leu Thr Glu
38                      80                  85                  90
39         ggt cct gag tgt gat gtc act gat gac atc acg gcc act gtg cca tac    458
40         Gly Pro Glu Cys Asp Val Thr Asp Asp Ile Thr Ala Thr Val Pro Tyr
41              95                  100                 105
42         aac ctt cgt gtc agg gcc aca ttg ggc tca cag acc tca gcc tgg agc    506
43         Asn Leu Arg Val Arg Ala Thr Leu Gly Ser Gln Thr Ser Ala Trp Ser
44         110                 115                 120                 125
```

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45              atc ctg aag cat ccc ttt aat aga aac tca acc atc ctt acc cga cct   554
46              Ile Leu Lys His Pro Phe Asn Arg Asn Ser Thr Ile Leu Thr Arg Pro
47                              130                 135                 140
W-->  48  see   ggg atg gag atc acc aaa aat ggc ttc cac ctg gtt att gag ctg gag   602
49  item 10     Gly Met Glu Ile Xaa Lys Xaa Gly Phe His Leu Val Ile Glu Leu Glu
50                              145                 150                 155
51  on          gac ctg ggg ccc cag ttt gag ttc ctt gtg gcc tac tgg asg agg gag   650
52  Eva         Asp Leu Gly Pro Gln Phe Glu Phe Leu Val Ala Tyr Trp Xaa Arg Glu
53                              160                 165                 170
54  summary     cct ggt gcc gag gaa cat gtc aaa atg gtg agg agt ggg ggt att cca   698
55  fleet       Pro Gly Ala Glu Glu His Val Lys Met Val Arg Ser Gly Gly Ile Pro
56                              175                 180                 185
57              gtg cac cta gaa acc atg gag cca ggg gct gca tac tgt gtg aag gcc   746
58              Val His Leu Glu Thr Met Glu Pro Gly Ala Ala Tyr Cys Val Lys Ala
59                              190                 195                 200                 205
60              cag aca ttc gtg aag gcc att ggg arg tac agc gcc ttc agc cag aca   794
61              Gln Thr Phe Val Lys Ala Ile Gly Xaa Tyr Ser Ala Phe Ser Gln Thr
62                              210                 215                 220
63              gaa tgt gtg gar gtg caa gga gag gcc att ccc ctg gta ctg gcc ctg   842
64              Glu Cys Val Xaa Val Gln Gly Glu Ala Ile Pro Leu Val Leu Ala Leu
65                              225                 230                 235
66              ttt gcc ttt gtt ggc ttc atg ctg atc ctt gtg gtc gtg cca ctg ttc   890
67              Phe Ala Phe Val Gly Phe Met Leu Ile Leu Val Val Val Pro Leu Phe
68                              240                 245                 250
69              gtc tgg aaa atg ggc cgg ctg ctc cag tac tcc tgt tgc ccc gtg gtg   938
70              Val Trp Lys Met Gly Arg Leu Leu Gln Tyr Ser Cys Cys Pro Val Val
71                              255                 260                 265
72              gtc ctc cca gac acc ttg aaa ata acc aat tca ccc cag aag tta atc   986
73              Val Leu Pro Asp Thr Leu Lys Ile Thr Asn Ser Pro Gln Lys Leu Ile
74              270                 275                 280                 285
75              agc tgc aga agg gag gag gtg gat gcc tgt gcc acg gct gtg atg tct   1034
76              Ser Cys Arg Arg Glu Glu Val Asp Ala Cys Ala Thr Ala Val Met Ser
77                              290                 295                 300
78              cct gag gaa ctc ctc agg gcc tgg atc tca taggtttgcg gaagggccca   1084
79              Pro Glu Glu Leu Leu Arg Ala Trp Ile Ser
80                              305                 310
81              ggtgaagccg agaacctggt ctgcatgaca tggaaaccat gaggggacaa gttgtgtttc 1144
82              tgttttccgc cacggacaag ggatgagaga agtaggaaga gcctgttgtc tacaagtcta 1204
83              gaagcaacca tcagaggcag ggtggtttgt ckaacagaac aaytgactga ggytakrggg 1264
84  item 10     gwtgtgacct ctagactktg ggstkscayt tgcwtgggtg agcaaccctg ggaaaagtga 1324
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93              Met Trp Phe Phe Tyr Ala Leu Ile Pro Cys Leu Leu Thr Asp Glu Val
94                              20                  25                  30
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PAGE:     3

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/265,540

DATE: 03/24/199
TIME: 16:28:51

Input Set: I265540.RAW

```
 95          Ala Ile Leu Pro Ala Pro Gln Asn Leu Ser Val Leu Ser Thr Asn Met
 96                      35                  40                  45
 97          Lys His Leu Leu Met Trp Ser Pro Val Ile Ala Pro Gly Glu Thr Val
 98                  50                  55                  60
 99          Tyr Tyr Ser Val Glu Tyr Gln Gly Glu Tyr Glu Ser Leu Tyr Thr Ser
100                  65                  70                  75              80
101          His Ile Trp Ile Pro Ser Ser Trp Cys Ser Leu Thr Glu Gly Pro Glu
102                              85                  90                  95
103          Cys Asp Val Thr Asp Asp Ile Thr Ala Thr Val Pro Tyr Asn Leu Arg
104                      100                 105                 110
105          Val Arg Ala Thr Leu Gly Ser Gln Thr Ser Ala Trp Ser Ile Leu Lys
106                  115                 120                 125
107          His Pro Phe Asn Arg Asn Ser Thr Ile Leu Thr Arg Pro Gly Met Glu
108                  130                 135                 140
109 W-->     Ile Xaa Lys Xaa Gly Phe His Leu Val Ile Glu Leu Glu Asp Leu Gly
110          145                 150                 155                 160
111 W-->     Pro Gln Phe Glu Phe Leu Val Ala Tyr Trp Xaa Arg Glu Pro Gly Ala
112                          165                 170                 175
113          Glu Glu His Val Lys Met Val Arg Ser Gly Gly Ile Pro Val His Leu
114                  180                 185                 190
115          Glu Thr Met Glu Pro Gly Ala Ala Tyr Cys Val Lys Ala Gln Thr Phe
116                  195                 200                 205
117 W-->     Val Lys Ala Ile Gly Xaa Tyr Ser Ala Phe Ser Gln Thr Glu Cys Val
118              210                 215                 220
119 W-->     Xaa Val Gln Gly Glu Ala Ile Pro Leu Val Leu Ala Leu Phe Ala Phe
120          225                 230                 235                 240
121          Val Gly Phe Met Leu Ile Leu Val Val Val Pro Leu Phe Val Trp Lys
122                          245                 250                 255
123          Met Gly Arg Leu Leu Gln Tyr Ser Cys Cys Pro Val Val Val Leu Pro
124                      260                 265                 270
125          Asp Thr Leu Lys Ile Thr Asn Ser Pro Gln Lys Leu Ile Ser Cys Arg
126                  275                 280                 285
127          Arg Glu Glu Val Asp Ala Cys Ala Thr Ala Val Met Ser Pro Glu Glu
128                  290                 295                 300
129          Leu Leu Arg Ala Trp Ile Ser
130          305                 310
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141             1               5                  10                  15
142          tgg ttc ctg tcc tgt tgg aat gtt acc att ggg cct cct gag agc atc     97
143          Trp Phe Leu Ser Cys Trp Asn Val Thr Ile Gly Pro Pro Glu Ser Ile
144                          20                  25                  30
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```
145        tgg gtg acg ccg gga gaa gcc tcc ctc atc atc agg ttc tcc tct ccc   145
146        Trp Val Thr Pro Gly Glu Ala Ser Leu Ile Ile Arg Phe Ser Ser Pro
147            35              40              45
148        ttc gac gtc cct ccc aac ctg ggc tat ttc cag tac tat gtc cat tay   193
149        Phe Asp Val Pro Pro Asn Leu Gly Tyr Phe Gln Tyr Tyr Val His Xaa
150            50              55              60
151        tgg gaa aag gcg gga atc caa aag gtt aaa ggt cct ttc aag agc aac   241
152        Trp Glu Lys Ala Gly Ile Gln Lys Val Lys Gly Pro Phe Lys Ser Asn
153            65              70              75              80
154        tcc atc gtg ttg gat ggc ttg aga ccc tta aga gaa tac tgt tta caa   289
155        Ser Ile Val Leu Asp Gly Leu Arg Pro Leu Arg Glu Tyr Cys Leu Gln
156                            85              90              95
157        gtg aag gcg cat ctc ttt cgc aca tcc tgc aac acc tct agg ccc ggc   337
158        Val Lys Ala His Leu Phe Arg Thr Ser Cys Asn Thr Ser Arg Pro Gly
159                        100             105             110
160        cgc tta agc aac ata act tgc tac gaa aca atg atg gat gcc act acg   385
161        Arg Leu Ser Asn Ile Thr Cys Tyr Glu Thr Met Met Asp Ala Thr Thr
162                        115             120             125
163        aag ctt caa caa gtc atc ctc atc gcc gtg gga gtc ttt ctg tcg ctg   433
164        Lys Leu Gln Gln Val Ile Leu Ile Ala Val Gly Val Phe Leu Ser Leu
165            130             135             140
166        gcg gcg ctg gcg ggg ggc tgt ttc ttc ctg gtg ctg aga tac aaa ggc   481
167        Ala Ala Leu Ala Gly Gly Cys Phe Phe Leu Val Leu Arg Tyr Lys Gly
168            145             150             155             160
169        ctg gtg aaa tac tgg ttt cac tct ccg cca agc atc cca tca caa atc   529
170        Leu Val Lys Tyr Trp Phe His Ser Pro Pro Ser Ile Pro Ser Gln Ile
171                            165             170             175
172        gaa gag tat ctg aag gac ccg agc cag cct atc cta gag gcc ctg gac   577
173        Glu Glu Tyr Leu Lys Asp Pro Ser Gln Pro Ile Leu Glu Ala Leu Asp
174                        180             185             190
175        aag gac acg tca cca aca gat gat gcc tgg gac ttg gtg tct gtt gtt   625
176        Lys Asp Thr Ser Pro Thr Asp Asp Ala Trp Asp Leu Val Ser Val Val
177                        195             200             205
178        gca ttt cca gca aag gag caa gaa gat gtt ccc caa agc act ttg acc   673
179        Ala Phe Pro Ala Lys Glu Gln Glu Asp Val Pro Gln Ser Thr Leu Thr
180            210             215             220
181        caa aac tct ggt gcg gtc tgc tagcctgtgg ggtaagggct ctgagccgag        724
182        Gln Asn Ser Gly Ala Val Cys
183        225             230
184        gaagctgctg atgtccatgt cagcacttta tggaatccgg tcctccattt tcctgtcccc 784
185        aaaaggcccg tcagtgcctg tgaagatgta acgggtctca tggggggcgac aagcttattg 844
186        atttttttct tcaaactaag agttttctaa tcatacgcgt ttttagaata attctacaga 904
187        tatgtccccg aaagattaag atttctctta aacactaaaa agacatgtaa ttatttgtta 964
188        gcaaatgggc gtctggcacg cctctgacac tttttcgtca gcagccagga cacgaggtcc 1024
189        cctccttgat gaagcccctc gggcagacca tgtcacctgt cccagcctgc cccaagaagg 1084
190        gacattaagt ggcccttctt catatccaaa cacctggctt gaaatgtgat tagccctgta 1144
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192        aactttttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa                         1244
193   <210> SEQ ID NO 4
194   <211> LENGTH: 231
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OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/265,540

DATE: 03/24/1999
TIME: 16:28:51

PAGE:     5

Input Set: I265540.RAW

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196    <213> ORGANISM: primate
197    <400> SEQUENCE: 4
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201                          20                  25                  30
202          Trp Val Thr Pro Gly Glu Ala Ser Leu Ile Ile Arg Phe Ser Ser Pro
203                      35                  40                  45
204          Phe Asp Val Pro Pro Asn Leu Gly Tyr Phe Gln Tyr Tyr Val His Xaa
205                  50                  55                  60
206          Trp Glu Lys Ala Gly Ile Gln Lys Val Lys Gly Pro Phe Lys Ser Asn
207          65                  70                  75                  80
208          Ser Ile Val Leu Asp Gly Leu Arg Pro Leu Arg Glu Tyr Cys Leu Gln
209                          85                  90                  95
210          Val Lys Ala His Leu Phe Arg Thr Ser Cys Asn Thr Ser Arg Pro Gly
211                      100                 105                 110
212          Arg Leu Ser Asn Ile Thr Cys Tyr Glu Thr Met Met Asp Ala Thr Thr
213                      115                 120                 125
214          Lys Leu Gln Gln Val Ile Leu Ile Ala Val Gly Val Phe Leu Ser Leu
215                  130                 135                 140
216          Ala Ala Leu Ala Gly Gly Cys Phe Phe Leu Val Leu Arg Tyr Lys Gly
217          145                 150                 155                 160
218          Leu Val Lys Tyr Trp Phe His Ser Pro Ser Ile Pro Ser Gln Ile
219                          165                 170                 175
220          Glu Glu Tyr Leu Lys Asp Pro Ser Gln Pro Ile Leu Glu Ala Leu Asp
221                      180                 185                 190
222          Lys Asp Thr Ser Pro Thr Asp Asp Ala Trp Asp Leu Val Ser Val Val
223                      195                 200                 205
224          Ala Phe Pro Ala Lys Glu Gln Glu Asp Val Pro Gln Ser Thr Leu Thr
225                  210                 215                 220
226          Gln Asn Ser Gly Ala Val Cys
227          225                 230
228    <210> SEQ ID NO 5
229    <211> LENGTH: 337
230    <212> TYPE: PRT
231    <213> ORGANISM: primate
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234          1               5                   10                  15
235          Ala Ala Ala Ala Ala Ala Pro Pro Asp Pro Leu Ser Gln Leu Pro Ala
236                          20                  25                  30
237          Pro Gln His Pro Lys Ile Arg Leu Tyr Asn Ala Glu Gln Val Leu Ser
238                      35                  40                  45
239          Trp Glu Pro Val Ala Leu Ser Asn Ser Thr Arg Pro Val Val Tyr Arg
240          50                  55                  60
241          Val Gln Phe Lys Tyr Thr Asp Ser Lys Trp Phe Thr Ala Asp Ile Met
242          65                  70                  75                  80
243          Ser Ile Gly Val Asn Cys Thr Gln Ile Thr Ala Thr Glu Cys Asp Phe
244                          85                  90                  95
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Input Set: I265540.RAW

| Line | ? | Error/Warning | Original Text |
|------|---|---------------|---------------|
| 48 | W | "N" or "Xaa" used: Feature required | ggg atg gag atc ncc aaa nat ggc ttc cac c |
| 85 | W | "N" or "Xaa" used: Feature required | cttcatccct tnggtccnaa gttttctcat ctgtaatg |
| 109 | W | "N" or "Xaa" used: Feature required | Ile Xaa Lys Xaa Gly Phe His Leu Val Ile G |
| 111 | W | "N" or "Xaa" used: Feature required | Pro Gln Phe Glu Phe Leu Val Ala Tyr Trp X |
| 117 | W | "N" or "Xaa" used: Feature required | Val Lys Ala Ile Gly Xaa Tyr Ser Ala Phe S |
| 119 | W | "N" or "Xaa" used: Feature required | Xaa Val Gln Gly Glu Ala Ile Pro Leu Val L |
| 204 | W | "N" or "Xaa" used: Feature required | Phe Asp Val Pro Pro Asn Leu Gly Tyr Phe G |

# OTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING UCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

he nucleotide and/or amino acid sequence disclosure contained in this application does not omply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the )llowing reason(s)

☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.

☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).

☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).

☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."

☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).

☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).

☐ 7. Other: _____

## Applicant Must Provide:

☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".

☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.

☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216
For CRF Submission Help, call (703) 308-4212
For PatentIn software help, call (703) 308-6856

## PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

COPY FOR [ ] File [ ] Applicant